IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method of operating a mobile telephone in a cellular telephone communications system in which including a plurality of mobile network service providers and a plurality of land line network service providers provide respective alternative communications channels within said cellular telephone communications system, the method comprising:

storing routing information preferred route codes in a look-up table of the mobile telephone such that the table is populated with data in the form of preferred route codes, each preferred route code including route information regarding a preferred route for connection to a respective call destination using a preferred identifying a mobile network service provider and a preferred land line network service provider, and wherein the preferred route codes comprise to be used to route a call to a corresponding call destination and based on results of a route selection decision by a control centre remote from the mobile telephone;

originating an outgoing telephone call to a call destination by the input of user generated call destination information;

accessing the look-up table using an address determined at least in part by the <u>user</u> generated call destination information to obtain a selected preferred route code <u>that</u> corresponds to the call destination;

selecting one of the <u>a</u> communication <u>channels</u> <u>channel</u> of the mobile network service provider [[in]] <u>identified by</u> the selected preferred route code <u>corresponding to the call</u> <u>destination</u>;

transmitting the selected preferred route code via the selected communication channel to establish communication for the outgoing telephone call [[for a]] to the call destination corresponding to the <u>user generated</u> call destination information via the mobile network

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service provider and the land line network service provider [[in]] <u>identified by</u> the selected preferred route code; and

periodically scanning received transmissions to identify available communications channels for which the mobile telephone has functional capability and attempting to complete a registration procedure for each available channel,

wherein said selecting comprises selecting from those available channels of said cellular telephone communications system in respect of which registration is completed.

Claim 2 (Canceled).

Claim 3 (Previously Presented): A method as claimed in claim 1 wherein the decision is based at least in part on least-cost.

Claim 4 (Previously Presented): A method as claimed in claim 1 wherein the decision is based at least in part on performance of at least one network selected in accordance with the preferred route.

Claim 5 (Previously Presented): A method as claimed in claim 1 wherein the preferred route codes further determine a choice of a further network for forward connection between a network of the service provider of the selected communication channel and the call destination via the further network.

Claim 6 (Original): A method as claimed in claim 5 wherein the control centre collates billing information in respect of services provided by the service provider and one or

more further service providers of the further networks in facilitating the making of the call to

the call destination.

Claim 7 (Previously Presented): A method as claimed in claim 5 wherein the mobile

telephone adds a prefix code to the user generated call destination information.

Claim 8 (Previously Presented): A method as claimed in claim 7 wherein the prefix

code includes a customer identification field containing user specific identification data.

Claim 9 (Previously Presented): A method as claimed in of claim 7 wherein the

prefix code includes a charging information field for identifying a control entity to be billed

by one or more service providers corresponding to the selected network connection route.

Claim 10 (Canceled).

Claim 11 (Previously Presented): A method as claimed in claim 1 further comprising

electing from the available channels a home channel for receipt of incoming calls.

Claim 12 (Previously Presented): A method as claimed in claim 1 further comprising

electing from the available channels in respect of which registration is completed an update

receiving channel for receipt of updating information broadcasts.

Claim 13 (Previously Presented): A method as claimed in claim 1 wherein the look-

up table is stored in a portable storage medium removably installed in the mobile telephone.

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Claim 14 (Previously Presented): A method as claimed in claim 13 wherein the storage medium is a smart card.

Claim 15 (Previously Presented): A method as claimed in claim 13 wherein the portable storage medium is a SIM (subscriber identity module) card which also stores subscriber specific data for identification and authentication purposes.

Claim 16 (Previously Presented): A method as claimed in claim 13 wherein the lookup table is populated with an initial set of data before installation of the storage medium in the mobile telephone.

Claim 17 (Previously Presented): A method as claimed in claim 1 further comprising periodically updating the data stored in the look-up table by receiving data blocks each containing a respective portion of updated data and, for each received data block, overwriting a corresponding portion of the existing data with updated data from the received block.

Claim 18 (Previously Presented): A method as claimed in claim 1 wherein the lookup table comprises:

a routing table containing the preferred route codes;

a carrier selection table containing, for each preferred route code, a list in order of priority of carrier selections to be used, subject to availability; and

a carrier access table containing, for each carrier selection, a channel selection identifying a communications channel provided by a service provider of the mobile telephone system and a prefix code to be added to the dialed number identifying a further network for routing the call.

Claim 19 (Previously Presented): A method as claimed in claim 18 wherein the lookup table further comprises a carrier availability table containing information indicating which of the channels are currently available.

Claim 20 (Previously Presented): A method as claimed in claim 19 wherein the accessing the look-up table comprises:

addressing the routing table to obtain a preferred route code;

using the preferred route code to address the carrier selection table to obtain a list of carrier selections;

addressing the carrier access table using the first carrier selection on the list to obtain the prefix code and channel selection data for the first channel selection; and

addressing the carrier availability table using the channel selection data to determine if the first carrier selection is one of the available channels in respect of which registration is completed and, if so, initiating the call to the call destination using the prefix code via the channel selection data for the first carrier selection.

Claim 21 (Previously Presented): A method as claimed in claim 20 wherein, if the first carrier selection is determined not to be an available channel, the carrier availability table is addressed using channel selection data for a further carrier selection from the list and, if it is determined that the further carrier selection is an available channel, the call is initiated using the prefix code and channel selection data for the further carrier selection.

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Claim 22 (Previously Presented): A method as claimed in claim 19 wherein the mobile telephone searches for available communications channels of the cellular telephone communications system and updates the carrier availability table accordingly.

Claim 23 (Previously Presented): A method as claimed in claim 1 wherein the look-up table comprises default route data and wherein if accessing the look-up table with the call destination information fails to locate corresponding data defining a preferred route code, the preferred route code is derived from the default route data.

Claim 24 (Previously Presented): A method as claimed in claim 1 wherein updating information for updating the look-up table is communicated to the mobile telephone via a selected one of the available communications channels.

Claim 25 (Original): A method as claimed in claim 24 wherein the updating information is transmitted using an SMS (short message service) protocol.

Claim 26 (Previously Presented): A method as claimed in claim 24 wherein the updating information is transmitted as a multipoint broadcast to a plurality of mobile telephones.

Claim 27 (Previously Presented): A method as claimed in claim 1 wherein the updating information is transmitted to the mobile telephone as a web page.

Claim 28 (Original): A method as claimed in claim 27 wherein the web page is transmitted using Wireless Application Protocol.

Claim 29 (Previously Presented): A method as claimed in claim 27 wherein the mobile telephone processes the web page to extract updating information; stores the extracted updating information in a buffer memory; and updates the look-up table with updating information read from the buffer memory.

Claim 30 (Previously Presented): A method as claimed in claim 1 wherein the updating information is communicated to the mobile telephone by detachably connecting the mobile telephone to a docking station and transmitting the updating information to the mobile telephone via the docking station.

Claim 31 (Previously Presented): A method as claimed in claim 30 wherein the docking station is connected to receive a multipoint broadcast of updating information via a broadcast network.

Claim 32 (Original): A method as claimed in claim 31 wherein the docking station receives updating information as signals multiplexed in a television transmission signal.

Claim 33 (Original): A method as claimed in claim 32 wherein the signal is multiplexed in the vertical blanking interval of the television transmission signal.

Claim 34 (Previously Presented): A method as claimed in claim 31 wherein the broadcasting network is an optical cable network.

Claim 35 (Previously Presented): A method as claimed in claim 31 wherein the broadcasting network is a satellite television network.

Claim 36 (Previously Presented): A method as claimed in claim 30 wherein the docking station is connected to a telephone line and updating information is received from the control centre in response to making a telephone call request to the control centre via the telephone line.

Claim 37 (Previously Presented): A method as claimed in claim 36 wherein the docking station comprises a modern connected to the telephone line and which generates the telephone call request in response to user actuation of the docking station.

Claim 38 (Previously Presented): A method as claimed in claim 36 wherein the mobile telephone comprises a modem connected to the telephone line via the docking station and which generates the telephone call request in response to user actuation of the mobile telephone.

Claim 39 (Previously Presented): A method as claimed in claim 30 wherein the mobile telephone comprises an internal battery which is recharged by detachably connecting the mobile telephone to the docking station.

Claim 40 (Previously Presented): A method as claimed in claim 1 wherein the preferred route code determines a route via a packet switched network and comprises network address information defining at least one node of the network which is to be included in the selected route.

Claim 41 (Previously Presented): A method as claimed in claim 40 wherein the network address information defines at least one further node of the network which is not to be included in the selected route.

Claim 42 (Previously Presented): A method as claimed in claim 40 wherein the outgoing telephone call is transmitted as a packetised signal using a protocol in which such signals include a start address indicator interpreted by the network as being representative of a network address from which the call originates and further comprising transmitting the outgoing telephone call including start address information defined by the preferred route code.

Claim 43 (Original): A method as claimed in claim 42 wherein the start address information is representative of a start address which is different from the actual start address of the outgoing telephone call in the network.

Claim 44 (Previously Presented): A method as claimed in claim 1 wherein the telephone call is originated to communicate data comprising a type of data selected from a set of alternative types of data.

Claim 45 (Original): A method as claimed in claim 44 wherein the set of alternative types of data comprises voice data, image data and data formatted in accordance with an Internet protocol.

Claim 46 (Previously Presented): A method as claimed in claim 43 wherein the lookup table stores respective preferred route codes for each of the types of data.

Claim 47 (Previously Presented): A method as claimed in claim 1 wherein the cellular telephone system comprises part of a packet switching network in which the mobile telephone constitutes a node of the network and wherein the call destination constitutes a further node of the network.

Claim 48 (Currently Amended): A mobile telephone for use in a cellular telephone communications system in which including a plurality of mobile network service providers provide respective alternative communications channels within said cellular telephone communications system and a plurality of land line network service providers, the mobile telephone comprising:

a look-up table storing routing information such that the table is populated with data in the form of preferred route codes[[,]] each preferred route code including route information regarding a preferred route for connection to a respective call destination using a preferred identifying a mobile network service provider and a preferred land line network service provider, and wherein the preferred route codes comprise to be used to route a call to a corresponding call destination and based on results of a route selection decision by a control centre remote from the mobile telephone;

an input means for originating section configured to originate an outgoing telephone call to a call destination by the input of user generated call destination information;

an accessing means for accessing section configured to access the look-up table using an address determined at least in part by the user generated call destination information to obtain a selected preferred route code that corresponds to the call destination;

<u>a</u> channel <u>selecting means for selecting one of the selector configured to select a</u> communication <u>channels in accordance with channel of the mobile network service provider</u> <u>identified by the selected preferred route code corresponding to the call destination;</u>

a communication means for transmitting device configured to transmit the selected preferred route code via the selected communication channel to establish communication for the outgoing telephone call [[for a]] to the call destination corresponding to the user generated call destination information via the mobile network service provider and the land line network service provider [[in]] identified by the selected preferred route code; and

<u>a</u> scanning <u>means for device configured to periodically seanning scan</u> received transmissions to identify available communications channels for which [[it]] <u>the mobile telephone</u> has functional capability and <u>for attempting attempt</u> to complete a registration procedure for each available channel,

wherein the channel selecting means selector is operable to perform selection from those available channels of said cellular telephone communications system in which registration is completed.

Claim 49 (Canceled).

Claim 50 (Previously Presented): A mobile telephone as claimed in claim 90 wherein the prefix code includes a customer identification field containing user specific identification data.

Claim 51 (Previously Presented): A mobile telephone as claimed in claim 90 wherein the prefix code includes a charging information field for identifying a control entity to be

billed by one or more service providers corresponding to the selected network connection route.

Claim 52 (Canceled).

Claim 53 (Currently Amended): A mobile telephone as claimed in claim 48 further comprising an electing means for electing device configured to elect from the available channels in respect of which registration is completed a home channel for receipt of incoming calls.

Claim 54 (Previously Presented): A mobile telephone as claimed in claim 53 wherein the electing means is further operable to elect from the available channels an update receiving channel for receipt of updating information broadcasts.

Claim 55 (Previously Presented): A mobile telephone as claimed in claim 48 wherein the look-up table is stored in a portable storage medium removably installed in the mobile telephone.

Claim 56 (Previously Presented): A mobile telephone as claimed in claim 55 wherein the storage medium is a smart card.

Claim 57 (Previously Presented): A mobile telephone as claimed in claim 55 wherein the portable storage medium is a SIM (subscriber identity module) card which also stores subscriber specific data for identification and authentication purposes.

Claim 58 (Currently Amended): A mobile telephone as claimed in claim 48 further comprising an updating means for unit configured to periodically updating update the data stored in the look-up table by receiving data blocks each containing a respective portion of updated data and, for each received data block, overwriting overwrite a corresponding portion of the existing data with updated data from the received block.

Claim 59 (Previously Presented): A mobile telephone as claimed in claim 48 wherein the look-up table comprises:

a routing table containing the preferred route codes;

a carrier selection table containing, for each preferred route code, a list in order of priority of carrier selections to be used, subject to availability; and

a carrier access table containing, for each carrier selection, a channel selection identifying a communications channel provided by a service provider of the mobile telephone system and a prefix code to be added to the dialed number identifying a further network for routing the call.

Claim 60 (Previously Presented): A mobile telephone as claimed in claim 59 wherein the look-up table further comprises a carrier availability table containing information indicating which of the channels are currently available.

Claim 61 (Currently Amended): A mobile telephone as claimed in claim 60 wherein the accessing means section comprises:

means for a first addressing section configured to address the routing table to obtain a preferred route code;

means for using a selector configured to use the preferred route code to address the carrier selection table to obtain a list of carrier selections;

means for a second addressing section configured to address the carrier access table using the first carrier selection on the list to obtain the prefix code and channel selection data for the first channel selection; and

means for a third addressing section configured to address the carrier availability table using the channel selection data to determine if the first carrier selection is one of the available channels in respect of which registration is completed and, if so, initiating initiate the call to the call destination using the prefix code via the channel selection data for the first carrier selection.

Claim 62 (Currently Amended): A mobile telephone as claimed in claim 61 wherein, if the first carrier selection is determined not to be an available channel, the means for third addressing section the carrier availability table is operable to address the table using channel selection data for a further carrier selection from the list and, if it is determined that the further carrier selection is an available channel, to initiate the call using the prefix code and channel selection data for the further carrier selection.

Claim 63 (Currently Amended): A mobile telephone as claimed in claim 60 further comprising means for a searching section configured to search for available communications channels of the cellular telephone communications system and means for an updating section configured to update the carrier availability table accordingly.

Claim 64 (Currently Amended): A mobile telephone as claimed in claim 48 wherein the look-up table comprises default route data and wherein the accessing means section is

operable, if accessing the look-up table with the call destination information fails to locate corresponding data defining a preferred route code, to derive preferred route code from the default route data.

Claim 65 (Currently Amended): A mobile telephone as claimed in claim 48 further comprising means for an extracting section configured to extract updating information for updating the look-up table from signals communicated to the mobile telephone via a selected one of the available communications channels.

Claim 66 (Original): A mobile telephone as claimed in claim 65 wherein the updating information is extracted from signals encoded using an SMS (short message service) protocol.

Claim 67 (Currently Amended): A mobile telephone as claimed in claim 66 wherein the extracting means section is operable to extract the updating information from data transmitted to the mobile telephone as a web page.

Claim 68 (Currently Amended): A mobile telephone as claimed in claim 67 wherein the extracting means section extracts updating information from the web page using Wireless Application Protocol.

Claim 69 (Currently Amended): A mobile telephone as claimed in claim 67 wherein the extracting means section comprises a processor operable to process the web page to extract updating information; store the extracted updating information in a buffer memory; and update the look-up table with updating information read from the buffer memory.

Claim 70 (Currently Amended): A mobile telephone as claimed in claim 48 further comprising a connecting means section operable to detachably connect the mobile telephone to a docking station and an interface for receiving configured to receive the updating information transmitted in use to the mobile telephone via the docking station.

Claim 71 (Previously Presented): A mobile telephone as claimed in claim 70 cooperable in use with a docking station connected to a telephone line such that updating
information is received from the control centre in response to making a telephone call request
to the control centre via the telephone line; wherein the mobile telephone comprises a modem
connectable in use to the telephone line via the docking station and which modem is operable
to generate the telephone call request in response to user actuation of the mobile telephone.

Claim 72 (Previously Presented): A mobile telephone as claimed in claim 48 wherein the preferred route code determines a route via a packet switched network and comprises network address information defining in use at least one node of the network which is to be included in the selected route.

Claim 73 (Previously Presented): A mobile telephone as claimed in claim 72 wherein the network address information defines in use at least one further node of the network which is not to be included in the selected route.

Claim 74 (Currently Amended): A mobile telephone as claimed in claim 72 further comprising means for transmitting a transmitter configured to transmit the outgoing telephone call as a packetised signal using a protocol in which such signals include a start

preferred route code.

address indicator interpreted in use by the network as being representative of a network address from which the call originates and wherein the transmitting means is operable to transmit the outgoing telephone call including start address information defined by the

Claim 75 (Previously Presented): A mobile telephone as claimed in claim 48 and operable to output communications signals representative of a type of data selected from a set of alternative types of data.

Claim 76 (Original): A mobile telephone as claimed in claim 75 wherein the types of data comprise voice data, image data and data formatted in accordance with an Internet protocol.

Claim 77 (Previously Presented): A mobile telephone as claimed in claim 75 wherein the look-table stores respective preferred route codes for each of the types of data.

Claim 78 (Canceled).

Claim 79 (Previously Presented): A docking station as claimed in claim 77 operable to receive a broadcast of updating information via a broadcast network and further comprising a decoder for decoding signals multiplexed in the vertical blanking interval of a television transmission signal.

Claim 80 (Currently Amended): A docking station as claimed in claim 77 further comprising means for receiving a receiver configured to receive updating information via a telephone line.

Claim 81 (Previously Presented): A docking station as claimed in claim 80 further comprising a modem.

Claim 82 (Currently Amended): A docking station as claimed in claim 81 further comprising means for initiating an initiator configured to initiate the generation of a telephone call via the telephone line requesting the transmission of updating information.

Claims 83-84 (Canceled).

Claim 85 (Currently Amended): A computer readable medium storing computer program instructions, which when executed by a computer, cause the computer to perform program comprising processor implementable instructions for carrying out a method of operating a mobile telephone as claimed in claim 1 in a system including a plurality of mobile network service providers and a plurality of land line network service providers comprising steps of:

storing preferred route codes in a look-up table of the mobile telephone, each

preferred route code identifying a mobile network service provider and a land line network

service provider to be used to route a call to a corresponding call destination and based on

results of a route selection decision by a control centre remote from the mobile telephone;

originating an outgoing telephone call to a call destination by the input of user generated call destination information;

accessing the look-up table using an address determined at least in part by the user generated call destination information to obtain a selected preferred route code that corresponds to the call destination;

selecting a communication channel of the mobile network service provider identified by the selected preferred route code corresponding to the call destination;

transmitting the selected preferred route code via the selected communication channel
to establish communication for the outgoing telephone call to the call destination
corresponding to the user generated call destination information via the mobile network
service provider and the land line network service provider identified by the selected
preferred route code; and

periodically scanning received transmissions to identify available communications

channels for which the mobile telephone has functional capability and attempting to complete

a registration procedure for each available channel,

wherein said selecting comprises selecting from those available channels of said cellular telephone communications system in respect of which registration is completed.

Claim 86 (Canceled).

Claim 87 (Currently Amended): A communications signal comprising processor implementable instructions for carrying out a method of operating a mobile telephone as elaimed in claim 1 in a system including a plurality of mobile network service providers and a plurality of land line network service providers comprising steps of:

storing preferred route codes in a look-up table of the mobile telephone, each

preferred route code identifying a mobile network service provider and a land line network

service provider to be used to route a call to a corresponding call destination and based on

originating an outgoing telephone call to a call destination by the input of user generated call destination information;

accessing the look-up table using an address determined at least in part by the user generated call destination information to obtain a selected preferred route code that corresponds to the call destination;

selecting a communication channel of the mobile network service provider identified by the selected preferred route code corresponding to the call destination;

transmitting the selected preferred route code via the selected communication channel
to establish communication for the outgoing telephone call to the call destination
corresponding to the user generated call destination information via the mobile network
service provider and the land line network service provider identified by the selected
preferred route code; and

periodically scanning received transmissions to identify available communications

channels for which the mobile telephone has functional capability and attempting to complete

a registration procedure for each available channel,

wherein said selecting comprises selecting from those available channels of said cellular telephone communications system in respect of which registration is completed.

Claim 88-89 (Canceled).

Claim 90 (Currently Amended): A mobile telephone as claimed in claim 48 further comprising <u>a</u> code generating means for adding generator configured to add a prefix code to the user generated call destination information.